

1 **CLAIMS**

2
3 1. An access station for wireless communications, the access station
4 comprising:

5 a plurality of medium access controllers;

6 a plurality of baseband units, each respective baseband unit of the plurality
7 of baseband units associated with a respective medium access controller of the
8 plurality of medium access controllers; and

9 medium access controller coordination logic operatively coupled to the
10 plurality of medium access controllers and to the plurality of baseband units, the
11 medium access controller coordination logic adapted to coordinate the plurality of
12 medium access controllers such that the plurality of baseband units do not cause a
13 signal transmission during a signal reception.

14
15 2. The access station as recited in claim 1, further comprising:

16 a plurality of electronic cards;

17 wherein each respective medium access controller of the plurality of
18 medium access controllers and each respective associated baseband unit of the
19 plurality of baseband units are jointly located on a respective electronic card of the
20 plurality of electronic cards.

21
22 3. The access station as recited in claim 1, further comprising:

23 an Ethernet switch/router that is operatively coupled to each medium access
24 controller of the plurality of medium access controllers.

1 4. The access station as recited in claim 1, further comprising:
2 a plurality of radio frequency parts, each respective radio frequency part of
3 the plurality of radio frequency parts operatively coupled to a corresponding
4 respective baseband unit of the plurality of baseband units.

5
6 5. The access station as recited in claim 4, further comprising:
7 at least one beamformer operatively coupled to the plurality of radio
8 frequency parts; and
9 at least one antenna array operatively coupled to the at least one
10 beamformer.

11
12 6. The access station as recited in claim 1, wherein each respective
13 medium access controller of the plurality of medium access controllers and each
14 respective associated baseband unit of the plurality of baseband units are further
15 associated with a respective access point of a plurality of access points that are
16 established by the access station.

17
18 7. The access station as recited in claim 1, wherein the medium access
19 controller coordination logic is further adapted to coordinate the plurality of
20 medium access controllers such that the plurality of baseband units do not cause a
21 signal transmission during a signal reception on a per-channel basis.

1 8. The access station as recited in claim 1, wherein the plurality of
2 baseband units forward a plurality of receive indicators to the medium access
3 controller coordination logic, and the plurality of medium access controllers
4 accept a plurality of constructive receive indicators from the medium access
5 controller coordination logic; and wherein the medium access controller
6 coordination logic is further adapted to coordinate the plurality of medium access
7 controllers by analyzing the plurality of receive indicators and by producing the
8 plurality of constructive receive indicators responsive to the analyzing.

9
10 9. An access station for wireless communications, the access station
11 comprising:

12 a wireless input/output (I/O) unit that is configured to establish a plurality
13 of access points; and

14 signal transmission/reception coordination logic that is capable of
15 ascertaining that an access point of the plurality of access points is receiving a
16 signal and that is adapted to restrain at least one other access point of the plurality
17 of access points from transmitting another signal responsive to the ascertaining
18 that the access point is receiving the signal.

19
20 10. The access station as recited in claim 9, wherein the plurality of
21 access points established by the wireless I/O unit are co-located.

22
23 11. The access station as recited in claim 9, wherein the wireless I/O
24 unit operates in accordance with at least one IEEE 802.11 standard.
25

1 12. The access station as recited in claim 9, wherein the signal received
2 by the access point comprises at least one uplinked packet.

3
4 13. The access station as recited in claim 9, wherein the signal received
5 by the access point comprises at least a portion of an uplinked packet.

6
7 14. The access station as recited in claim 13, wherein the at least a
8 portion of the uplinked packet comprises at least part of a preamble of the
9 uplinked packet.

10
11 15. The access station as recited in claim 9, wherein the signal
12 transmission/reception coordination logic is further adapted to restrain at least two
13 other access points of the plurality of access points from transmitting signals
14 responsive to the ascertaining that the access point of the plurality of access points
15 is receiving the signal.

16
17 16. The access station as recited in claim 9, wherein the signal
18 transmission/reception coordination logic is further adapted to restrain the at least
19 one other access point of the plurality of access points from transmitting a
20 downlink signal responsive to the ascertaining that the access point of the plurality
21 of access points is receiving the signal.

1 **17.** The access station as recited in claim 9, wherein the signal
2 transmission/reception coordination logic is further adapted to restrain the at least
3 one other access point of the plurality of access points from transmitting the other
4 signal on a first channel responsive to the ascertaining that the access point of the
5 plurality of access points is receiving the signal on a second different channel.

6
7 **18.** The access station as recited in claim 9, wherein the signal
8 transmission/reception coordination logic is further capable of monitoring the
9 plurality of access points.

10
11 **19.** The access station as recited in claim 18, wherein the signal
12 transmission/reception coordination logic is capable of monitoring the plurality of
13 access points to detect received signals.

14
15 **20.** The access station as recited in claim 9, wherein the signal
16 transmission/reception coordination logic is further adapted to restrain the at least
17 one other access point of the plurality of access points while the access point is
18 receiving the signal.

19
20 **21.** The access station as recited in claim 9, wherein each access point
21 of the plurality of access points corresponds to a communication beam of a
22 plurality of communication beams that emanate from the access station.

1 **22.** The access station as recited in claim 9, wherein each access point
2 of the plurality of access points is associated with a medium access
3 controller/baseband unit pair.

4
5 **23.** The access station as recited in claim 9, wherein the signal
6 transmission/reception coordination logic comprises medium access controller
7 coordination logic.

8
9 **24.** The access station as recited in claim 23, wherein the medium
10 access controller coordination logic is physically distributed to link two or more
11 access stations.

12
13 **25.** The access station as recited in claim 9, wherein the signal
14 transmission/reception coordination logic operates at a baseband level.

15
16 **26.** The access station as recited in claim 9, wherein the signal
17 transmission/reception coordination logic operates at a radio frequency (RF) level.

18
19 **27.** A method for a system, the method comprising:
20 ascertaining that an access point of a plurality of access points is receiving a
21 signal; and
22 restraining at least one other access point of the plurality of access points
23 from transmitting a signal responsive to the ascertaining.

1 **28.** The method for a system as recited in claim 27, further comprising:
2 monitoring the plurality of access points to detect the signal.
3

4 **29.** The method for a system as recited in claim 27, wherein the
5 ascertaining comprises ascertaining that the access point of a plurality of co-
6 located access points is receiving the signal.
7

8 **30.** The method for a system as recited in claim 27, wherein the
9 restraining comprises restraining at least two other access points of the plurality of
10 access points from transmitting signals.
11

12 **31.** The method for a system as recited in claim 27, wherein the
13 restraining comprises restraining the at least one other access point at least while
14 the access point is receiving the signal.
15

16 **32.** The method for a system as recited in claim 27, wherein the
17 restraining comprises restraining the at least one other access point for at least a
18 predetermined timer period that starts when the access point is ascertained to be
19 receiving the signal.
20

21 **33.** The method for a system as recited in claim 27, wherein the
22 ascertaining comprises detecting that the access point is receiving the signal by
23 monitoring at least one indicator from a baseband unit that is associated with the
24 access point.
25

1 **34.** The method for a system as recited in claim 27, wherein the
2 restraining comprises instructing a medium access controller that the signal is
3 being received, the medium access controller associated with the at least one other
4 access point of the plurality of access points.

5
6 **35.** An apparatus comprising:
7 a plurality of inputs adapted to accept a plurality of receive indicators;
8 logic capable of combining the plurality of receive indicators to produce a
9 plurality of constructive receive indicators; and
10 a plurality of outputs adapted to provide the plurality of constructive
11 receive indicators.

12
13 **36.** The apparatus as recited in claim 35, wherein the apparatus
14 comprises a multi-media access controller (MAC) controller (MMC).

15
16 **37.** The apparatus as recited in claim 35, wherein both the plurality of
17 inputs and the plurality of outputs number three, six, or thirteen.

18
19 **38.** The apparatus as recited in claim 35, wherein the logic comprises at
20 least one "OR" gate.

21
22 **39.** The apparatus as recited in claim 35, wherein the logic comprises at
23 least one of hardware, software, and firmware.

1 **40.** The apparatus as recited in claim 35, wherein the logic is adapted to
2 segment the plurality of receive indicators using a channel mapping prior to
3 producing the plurality of constructive receive indicators, the plurality of
4 constructive receive indicators thereby being segmented by the channel mapping.

5
6 **41.** The apparatus as recited in claim 35, wherein the logic includes at
7 least one timing function that activates when a receive indicator of the plurality of
8 receive indicators affirmatively indicates that a signal is being received.

9
10 **42.** The apparatus as recited in claim 35, further comprising:
11 another plurality of inputs adapted to accept receive-indicator enable
12 information that stipulates which receive indicators of the plurality of receive
13 indicators are to be combined by the logic to produce the plurality of constructive
14 receive indicators.

15
16 **43.** The apparatus as recited in claim 35, wherein the plurality of inputs
17 are further adapted to accept the plurality of receive indicators from a plurality of
18 baseband units.

19
20 **44.** The apparatus as recited in claim 35, wherein the plurality of outputs
21 are further adapted to provide the plurality of constructive receive indicators to a
22 plurality of medium access controllers.

1 **45.** A system for wireless communications, the system comprising:
2 a plurality of respective baseband units capable of forwarding a plurality of
3 respective indicators that indicate when a corresponding respective baseband unit
4 is receiving a signal;

5 medium access controller coordination logic capable of accepting the
6 plurality of respective indicators and adapted to combine the plurality of
7 respective indicators to produce a plurality of constructive indicators that indicate
8 that one or more respective baseband units of the plurality of respective baseband
9 units is receiving a signal; and

10 a plurality of respective medium access controllers capable of accepting the
11 plurality of constructive indicators, each respective medium access controller of
12 the plurality of respective medium access controllers associated with a respective
13 baseband unit of the plurality of respective baseband units.

14
15 **46.** The system as recited in claim 45, further comprising:

16 a plurality of respective electronic cards;

17 wherein each respective medium access controller of the plurality of
18 respective medium access controllers and each associated respective baseband unit
19 of the plurality of respective baseband units are located on a respective electronic
20 card of the plurality of respective electronic cards.

1 **47.** The system as recited in claim 45, further comprising:

2 an Ethernet switch/router that is coupled to each respective medium access
3 controller of the plurality of respective medium access controllers to exchange
4 packets between each respective medium access controller and the Ethernet
5 switch/router.

6
7 **48.** The system as recited in claim 47, wherein the Ethernet
8 switch/router is coupled to an Ethernet backbone.

9
10 **49.** The system as recited in claim 47, wherein the Ethernet
11 switch/router comprises at least one central processing unit (CPU), one or more
12 memories, and software for performing packet switching and/or routing functions.

13
14 **50.** The system as recited in claim 45, further comprising:

15 a plurality of respective radio frequency parts, each respective radio
16 frequency part of the plurality of respective radio frequency parts coupled to a
17 corresponding respective baseband unit of the plurality of respective baseband
18 units for transferring packets therebetween.

19
20 **51.** The system as recited in claim 50, further comprising:

21 at least one beamformer coupled to the plurality of respective radio
22 frequency parts; and

23 at least one antenna array coupled to the at least one beamformer.
24
25

1 **52.** The system as recited in claim 51, wherein when a signal is received
2 at the system an incoming packet propagates from the at least one antenna array,
3 to the at least one beamformer, to a respective radio frequency part of the plurality
4 of respective radio frequency parts, and to a corresponding respective baseband
5 unit of the plurality of respective baseband units; and wherein when a signal is
6 transmitted from the system an outgoing packet propagates from the
7 corresponding respective baseband unit, to the respective radio frequency part, to
8 the at least one beamformer, and to the at least one antenna array.

9
10 **53.** The system as recited in claim 51, wherein the at least one
11 beamformer and the at least one antenna array jointly produce a plurality of
12 respective communication beams, each respective communication beam of the
13 plurality of respective communication beams corresponding to a respective
14 medium access controller of the plurality of respective medium access controllers
15 and to an associated respective baseband unit of the plurality of respective
16 baseband units.

17
18 **54.** The system as recited in claim 51, wherein the at least one antenna
19 array comprises at least one phased array of antennas.
20
21
22
23
24
25

1 **55.** The system as recited in claim 51, wherein the at least one
2 beamformer comprises at least one of a tuned vector modulator (multiplier); a
3 Butler matrix; a Rotman, Honda, or other lens; a canonical beamformer; a digital
4 beamformer; and a lumped-element beamformer with static or variable inductors
5 and capacitors.

6
7 **56.** The system as recited in claim 45, wherein each respective medium
8 access controller of the plurality of respective medium access controllers and each
9 associated respective baseband unit of the plurality of respective baseband units
10 are jointly associated with a respective access point of a plurality of respective
11 access points that are established by the system.

12
13 **57.** The system as recited in claim 45, wherein the medium access
14 controller coordination logic is further adapted to combine the plurality of
15 respective indicators to produce the plurality of constructive indicators on a per-
16 channel basis.

17
18 **58.** The system as recited in claim 45, wherein the medium access
19 controller coordination logic is further adapted to combine the plurality of
20 respective indicators to produce the plurality of constructive indicators using
21 logical “OR” functionality.

1 **59.** The system as recited in claim 45, wherein at least one respective
2 indicator of the plurality of respective indicators comprises at least one of a clear
3 channel assessment (CCA) and a busy/non-busy indication.
4

5 **60.** The system as recited in claim 45, wherein at least one respective
6 indicator of the plurality of respective indicators is based on one or more of energy
7 signals, cross-correlation signals, data signals, and other transmit and/or control
8 signals.
9

10 **61.** The system as recited in claim 45, wherein the medium access
11 controller coordination logic is further adapted to combine the plurality of
12 respective indicators to produce the plurality of constructive indicators in
13 accordance with a plurality of respective indicator enables that correspond to the
14 plurality of respective indicators.
15

16 **62.** The system as recited in claim 61, further comprising:
17 scanning logic that scans received signals across a plurality of respective
18 communication beams emanating from the system;
19 wherein the plurality of respective indicator enables are controlled, at least
20 partially, using the scanning logic.
21

22 **63.** The system as recited in claim 62, wherein the scanning logic
23 comprises part of the medium access controller coordination logic.
24
25

1 **64.** The system as recited in claim 61, further comprising:

2 a timer that is started when a respective indicator of the plurality of
3 respective indicators begins indicating that a signal is being received and that is
4 tolled when the respective indicator ceases indicating that the signal is being
5 received;

6 wherein if the timer expires prior to being tolled, a respective indicator
7 enable of the plurality of respective indicator enables that corresponds to the
8 respective indicator is disabled.

9
10 **65.** The system as recited in claim 64, wherein a duration of the timer is
11 set equal to or approximately equal to a maximum packet length.

12
13 **66.** The system as recited in claim 45, further comprising:

14 a timer that is started when a constructive indicator of the plurality of
15 constructive indicators begins indicating that a signal is being received by one or
16 more respective baseband units of the plurality of respective baseband units and
17 that is tolled when the constructive indicator ceases indicating that the signal is
18 being received;

19 wherein if the timer expires prior to being tolled, an error handling
20 procedure is commenced.

21
22 **67.** The system as recited in claim 45, wherein the system comprises an
23 access station.

1 68. The system as recited in claim 45, wherein the medium access
2 controller coordination logic is distributed across at least two access stations.

3
4 69. A system for wireless communications, the system comprising:
5 a first baseband unit that is capable of forwarding a first receive indicator;
6 a first medium access controller that is associated with the first baseband
7 unit;
8 a second baseband unit that is capable of forwarding a second receive
9 indicator;
10 a second medium access controller that is associated with the second
11 baseband unit; and
12 medium access controller coordination logic that is capable of accepting the
13 first receive indicator and the second receive indicator, the medium access
14 controller coordination logic adapted to detect that the first receive indicator is
15 affirmatively indicating that the first baseband unit is receiving a signal, the
16 medium access controller coordination logic further adapted to provide a
17 constructive receive indicator responsive to the first receive indicator that is
18 detected to be affirmatively indicating that the first baseband unit is receiving the
19 signal;
20 wherein the constructive receive indicator is provided to the second
21 medium access controller.

1 70. The system as recited in claim 69, wherein (i) first signals
2 corresponding to the first baseband unit and the first medium access controller and
3 (ii) second signals corresponding to the second baseband unit and the second
4 medium access controller are transceived on one channel.

5
6 71. The system as recited in claim 69, wherein the system is configured
7 to directly provide the constructive receive indicator to the second medium access
8 controller from the medium access controller coordination logic.

9
10 72. The system as recited in claim 69, wherein the system is configured
11 to indirectly provide the constructive receive indicator to the second medium
12 access controller from the medium access controller coordination logic.

13
14 73. The system as recited in claim 69, wherein the medium access
15 controller coordination logic is further adapted to produce the constructive receive
16 indicator from the first receive indicator and the second receive indicator using at
17 least one logical "OR" operation.

18
19 74. The system as recited in claim 69, wherein the system comprises at
20 least one access station.

21
22 75. The system as recited in claim 69, wherein the medium access
23 controller coordination logic is distributed across more than one access station via
24 at least one communication link.
25

1 76. A system for wireless communications, the system comprising:
2 medium access controller coordination logic capable of accepting a
3 plurality of respective indicators from a plurality of respective baseband units, the
4 medium access controller coordination logic adapted to combine the plurality of
5 respective indicators to produce a plurality of constructive indicators that indicate
6 that one or more respective baseband units of the plurality of respective baseband
7 units is receiving a signal; and
8 a plurality of respective medium access controllers capable of accepting the
9 plurality of constructive indicators, each respective medium access controller of
10 the plurality of respective medium access controllers associated with a respective
11 baseband unit of the plurality of respective baseband units.

12
13 77. A system for wireless communications, the system comprising:
14 a plurality of respective baseband units capable of forwarding a plurality of
15 respective indicators that indicate when a corresponding respective baseband unit
16 is receiving a signal; and
17 medium access controller coordination logic capable of accepting the
18 plurality of respective indicators, the medium access controller coordination logic
19 adapted to combine the plurality of respective indicators to produce a plurality of
20 constructive indicators that indicate that one or more respective baseband units of
21 the plurality of respective baseband units is receiving a signal.

1 **78.** The system as recited in claim 77, wherein the medium access
2 controller coordination logic is further adapted to provide the plurality of
3 constructive indicators to a plurality of medium access controllers.

4
5 **79.** A system for wireless communications, the system comprising:
6 medium access controller coordination logic capable of accepting a
7 plurality of respective receive indicators from a plurality of respective baseband
8 units; the medium access controller coordination logic adapted to combine the
9 plurality of respective receive indicators to produce a plurality of constructive
10 receive indicators, each constructive receive indicator of the plurality of
11 constructive receive indicators indicating that one or more respective baseband
12 units of the plurality of respective baseband units is receiving a signal; the medium
13 access controller coordination logic further adapted to provide the plurality of
14 constructive receive indicators to a plurality of medium access controllers.

15
16 **80.** A method comprising:
17 monitoring a plurality of respective indicators acquired from a plurality of
18 respective baseband units;
19 detecting whether at least one respective indicator of the plurality of
20 respective indicators is affirmatively indicating that a signal is being received; and
21 if so, providing at least one instruction to at least two medium access
22 controllers of a plurality of respective medium access controllers, the at least one
23 instruction restraining the at least two medium access controllers from causing a
24 transmission.

1 **81.** The method as recited in claim 80, further comprising:

2 if no respective indicator of the plurality of respective indicators is
3 affirmatively indicating that a signal is being received, then continuing the
4 monitoring.

5
6 **82.** The method as recited in claim 80, wherein the monitoring
7 comprises monitoring a respective indicator of the plurality of respective
8 indicators as acquired from each respective baseband unit of the plurality of
9 respective baseband units.

10
11 **83.** The method as recited in claim 80, wherein the detecting comprises
12 detecting whether respective indicators of the plurality of respective indicators are
13 affirmatively indicating that signals are being received via respective baseband
14 units of the plurality of respective baseband units.

15
16 **84.** The method as recited in claim 80, wherein the providing comprises
17 providing the at least one instruction to the at least two medium access controllers
18 of the plurality of respective medium access controllers, the at least one instruction
19 restraining the at least two medium access controllers from causing transmissions
20 in conjunction with at least two associated respective baseband units of the
21 plurality of respective baseband units.

22
23 **85.** The method as recited in claim 80, wherein at least one of the
24 monitoring, the detecting, and the providing are performed on a per-channel basis.
25

1 **86.** An access station comprising:
2 medium access controller coordination logic, the medium access controller
3 coordination logic configured to perform actions comprising:
4 accepting a plurality of respective receive indicators from a plurality
5 of respective baseband units;
6 mapping at least a portion of the plurality of respective receive
7 indicators into at least two channel-based groups;
8 combining respective receive indicators in accordance with the
9 mapping into each channel-based group of the at least two channel-based
10 groups to produce a plurality of respective constructive receive indicators;
11 and
12 providing the plurality of respective constructive receive indicators
13 to a plurality of respective medium access controllers.

14
15 **87.** The access station as recited in claim 86, wherein the medium
16 access controller coordination logic is configured to perform a further action
17 comprising:

18 masking non-enabled respective receive indicators of the plurality of
19 respective receive indicators to identify enabled respective receive
20 indicators;

21 wherein the at least a portion of the plurality of respective receive
22 indicators of the mapping comprises the enabled respective receive
23 indicators.

1 **88.** The access station as recited in claim 86, wherein the action of
2 combining comprises the actions of:

3 combining the respective receive indicators in accordance
4 with the mapping into each channel-based group into a channel-
5 based receive indicator for each channel-based group of the at least
6 two channel-based groups; and

7 producing the plurality of respective constructive receive
8 indicators using (i) the channel-based receive indicator in
9 accordance with the mapping into each channel-based group and (ii)
10 respective receive indicators of the plurality of respective receive
11 indicators.

12
13 **89.** An arrangement for signal communication coordination,
14 comprising:

15 means for monitoring a plurality of access points;

16 means for ascertaining that an access point is receiving a signal; and

17 means for restraining at least one other access point from transmitting a
18 signal responsive to the means for ascertaining.

19
20 **90.** The arrangement as recited in claim 89, wherein the at least one
21 other access point is located on an access station with the access point that is
22 receiving the signal.

1 **91.** The arrangement as recited in claim 89, wherein the at least one
2 other access point is located on a different access station from that of the access
3 point that is receiving the signal.

4
5 **92.** The arrangement as recited in claim 89, wherein the arrangement
6 comprises at least one access station.

7
8 **93.** The arrangement as recited in claim 89, wherein the arrangement
9 comprises one or more processor-accessible media.

10
11 **94.** A system for wireless communications, the system comprising:
12 a first access station that is capable of transceiving communications with
13 remote clients;
14 a second access station that is capable of transceiving communications with
15 remote clients; and
16 signal transmission/reception coordination logic that is linked to the first
17 access station and the second access station and is adapted to coordinate signal
18 transmissions and/or receptions of the first access station with regard to signal
19 transmission and/or receptions of the second access station.

20
21 **95.** The system as recited in claim 94, wherein the signal
22 transmission/reception coordination logic is at least one of co-located with and
23 located within the first access station or the second access station.

1 **96.** The system as recited in claim 94, wherein the signal
2 transmission/reception coordination logic is linked to the first access station and
3 the second access station using a wired link.
4

5 **97.** The system as recited in claim 94, wherein the signal
6 transmission/reception coordination logic is further adapted to permit signal
7 transmission at the first access station when the first access station is receiving a
8 signal that is sent from the second access station or that is being sent to the second
9 access station by a remote client.
10

11 **98.** The system as recited in claim 94, wherein the signal
12 transmission/reception coordination logic is further adapted to restrain a signal
13 transmission from the second access station when the first access station is
14 transmitting.
15

16 **99.** The system as recited in claim 98, wherein the signal transmission
17 from the second access station can potentially interfere with the transmitting from
18 the first access station.
19

20 **100.** The system as recited in claim 94, wherein the signal
21 transmission/reception coordination logic is further adapted to restrain a signal
22 transmission from the second access station when a remote client is awaiting a
23 response from the first access station based on a frame that the remote client
24 previously sent to the first access station.
25

1 **101.** The system as recited in claim 94, wherein the signal
2 transmission/reception coordination logic comprises medium access controller
3 coordination logic that is distributed across the first access station and the second
4 access station.

5
6 **102.** The system as recited in claim 94, wherein the signal
7 transmission/reception coordination logic operates at least on a baseband level.

8
9 **103.** An apparatus comprising:
10 signal transmission/reception coordination logic that accepts as inputs
11 receive information for a plurality of access points and produces as outputs
12 combined receive information, the signal transmission/reception coordination
13 logic adapted to combine the receive information according to at least one
14 coordination function and responsive to one or more selectivity factors.

15
16 **104.** The apparatus as recited in claim 103, wherein the one or more
17 selectivity factors include channel selectivity.

18
19 **105.** The apparatus as recited in claim 103, wherein the one or more
20 selectivity factors include overlapping subnet selectivity.

21
22 **106.** The apparatus as recited in claim 103, wherein the one or more
23 selectivity factors include packet-content-based selectivity.
24
25

1 **107.** An access station for wireless communications in a wireless
2 system, the access station comprising:

3 a wireless input/output (I/O) unit that is configured to establish a plurality
4 of access points; and

5 signal transmission/reception coordination logic that is capable of
6 ascertaining that a first access point of the plurality of access points is receiving a
7 first signal on a first channel and that is adapted to restrain a second access point
8 of the plurality of access points from transmitting a second signal on a second
9 channel based on the ascertaining that the first access point is receiving the first
10 signal with an ongoing transmission on a third channel to prevent distortion to
11 other signals being wirelessly communicated in the wireless system.

12
13 **108.** The access station as recited in claim 107, wherein the prevented
14 distortion comprises inter-modulation distortion.

15
16 **109.** An access station for wireless communications in a wireless
17 system, the access station comprising:

18 a wireless input/output (I/O) unit that is configured to establish at least one
19 access point; and

20 signal transmission/reception coordination logic that is capable of
21 restraining transmission from the at least one access point when another access
22 point is expecting a short-term response to a frame that was transmitted by the
23 other access point.

1 **110.** The access station as recited in claim 109, wherein the short-term
2 response to the frame comprises an immediate response to the frame.

3
4 **111.** The access station as recited in claim 109, wherein the other access
5 point is also established by the wireless I/O unit of the access station.

6
7 **112.** The access station as recited in claim 109, wherein the other access
8 point is established by a different access station.

9
10 **113.** The access station as recited in claim 109, wherein the at least one
11 access point and the other access point are operating on a same channel.

12
13 **114.** The access station as recited in claim 109, wherein the at least one
14 access point and the other access point are operating on different channels.

15
16 **115.** The access station as recited in claim 114, wherein the different
17 channels are adjacent.